



Attorney Docket: ASI.01
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	COBB)	EXAMINER:
)	
SERIAL NUMBER:	10/756,156)	ART UNIT:
)	
FILING DATE:	JANUARY 13, 2004)	
)	
TITLE:	ULTRASONIC MONITOR OF)	
	MATERIAL COMPOSITION)	
	AND PARTICLE SIZE)	

Mail Stop:
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicant calls the Examiner's attention to the patents and publications listed on the attached Form PTO-1449, copies of required documents enclosed, which may be material to examination of the above identified application.

TIME OF TRANSMITTAL

This Information Disclosure Statement is being filed under 37 CFR § 1.97(b). This Statement is filed within at least one of the following time periods:

- (a) within three months of the filing date of a national application (other than a CPA under 37 CFR § 1.53(d));
- (b) within three months of the date of entry of the national stage as set forth in 37 CFR § 1.491 in an international application;
- (c) before the mailing of a first Office Action of the merits; or
- (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR § 1.114.

No fee is believed to be due in this instance. However, the undersigned hereby authorizes the charging of any fees created by the filing of this document to Deposit Account No. 19-5117.



The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. This listed patents and publications are believed of interest herein and consideration and citation of as interest by Examiner is respectfully requested.

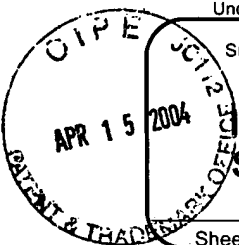
Respectfully submitted,

A handwritten signature in black ink, appearing to be "James L. Brown", written over a horizontal line.

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/756,156
Filing Date	JANUARY 13, 2004
First Named Inventor	Wesley N. Cobb
Art Unit	
Examiner Name	
Attorney Docket Number	ASI.01

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6,481,268 B1	11-19-2002	Povey, et al.	
		US- 6,401,538 B1	06-11-2002	Han, et al.	
		US- 6,295,873 B1	10-02-2001	Condreva	2:20-24
		US- 6,109,098	08-29-2000	Dukhin, et al.	1:17-20,2:9-27,2:55-
		US- 6,029,507	02-29-2000	Faber, et al	
		US- 5,627,323	05-06-1997	Stern	
		US- 5,623,095	04-22-1997	Beller	4:22-29, 6:10-15
		US- 5,569,844	10-29-1996	Sowerby	7:18-50, 11:60-62
		US- 5,473,934	12-12-1995	Cobb	6:12-55, 8:35-50
		US- 5,121,629	06-16- 1992	Alba	3:55-68,4:30-40, Fig5
		US- 5,060,507	10-29-1991	Urmson, et al.	
		US- 4,852,396	08-01-1989	Tavlarides, et al.	
		US- 4,773,267	09-27-1988	Abts	2:23-31
		US- 4,706,509	11-17-1987	Riebel	2:15-60
		US- 4,412,451	11-01-1983	Uusitalo, et al.	9:30-35
		US- 3,779,070	12-18-1973	Cushman, et al.	3:35-60
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 97/00436	01-03-1997	Sowerby, et. al	p7:4-11,p2:5-23	

Examiner
SignatureDate
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/756,156
				Filing Date	JANUARY 13, 2004
				First Named Inventor	Wesley N. Cobb
				Art Unit	
Examiner Name					
Sheet	2	of	2	Attorney Docket Number	ASI.01

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		PETERS, F AND PETIT, L, A broad band spectroscopy method for ultrasound wave velocity and attenuation measurement in dispersive media, Ultrasonics, 2003, 357-363, 41	
		COGHILL, P.J., M. J. MILLEN and B. D. SOWERBY, On-line measurement of particle size in mineral slurries, Minerals Engineering, 2002, 83-90, 15	
		HIPP, A.K., B. WALKER, M. MAZZOTTI, and M. MORBIDELLI, In-situ monitoring of batch crystallization by ultrasound spectroscopy, Ind. Eng. Chem. Res. 2000, 783-389, 39.	
		SCOTT, D.M., A BOXMAN, C.E. JOCHEN, In-line particle characterization, Part. Part. Syst. Charact. 1998, 47-50, 15.	
		COGHILL, P.J., M. J. MILLEN and B. D. SOWERBY, On-line particle size analysis using ultrasonic velocity spectrometry, Part. Part. Syst. Charact. 1997, 116-121, 14.	
		DUKHIN, A.S. and P.J. GOETZ, Acoustic and electroacoustic spectroscopy, Langmuir 1996, 4336-4344, 12.	
		MCCLEMENTS, D.J., Principles of ultrasonic droplet size determination in emulsions, Langmuir, 1996, 3454-3461, 12.	
		SCOTT, D.M., A. BOXMAN, C.E. JOCHEN, Ultrasonic measurements of sub-micron particles, Part. Part. Syst. Charact. 1995, 269-273, 12.	
		RIEBEL, U., and F. LOFFLER, The fundamentals of particle size analysis by means of ultrasonic spectrometry, Part. Part. Syst. Characteristics, 1989, 135-143, 6.	
		PAPADAKIS, E. P., Physical Acoustics, Principles and Methods, edited by W.P. Mason and R.N. Thurston, New York, Academic Press, 1976, v. 12, 277-374	

Examiner Signature		Date Considered	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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